

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
23 October 2003 (23.10.2003)

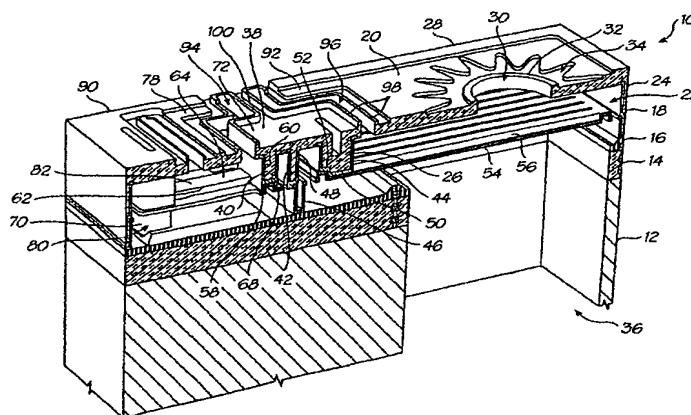
PCT

(10) International Publication Number
WO 03/086766 A1

- (51) International Patent Classification⁷: **B41J 2/045**, 2/165, B81B 7/00
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- (21) International Application Number: PCT/AU02/01169
- (22) International Filing Date: 29 August 2002 (29.08.2002)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
10/120,346 12 April 2002 (12.04.2002) US
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- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— with international search report

[Continued on next page]

(54) Title: DISCRETE AIR AND NOZZLE CHAMBERS IN A PRINthead CHIP FOR AN INKJET PRINthead



(57) **Abstract:** A printhead chip for an inkjet printhead includes a plurality of nozzle arrangements on a substrate (12). Each nozzle arrangement (10) includes nozzle chamber walls (18) and a roof (20) that define a nozzle chamber (22) with the roof defining an ink ejection port (30) in fluid communication with the nozzle chamber. An ink-ejecting member or paddle (54) is positioned in the nozzle chamber and displaceable towards and away from the ink ejection port so that a resultant fluctuation in ink pressure within the nozzle chamber results in an ejection of ink from the ink ejection port (30). At least one work transmitting structure of a lever mechanism (38) is displaceable with respect to the substrate results in displacement of the ink-ejecting member. A thermal bend actuator (62) is capable of displacing the structure upon receipt of an electrical drive signal (14). An air chamber (80) defined by walls (90) and a covering formation (78) are positioned over the actuator to protect the component from ingress of microscopic detritus such as paper dust.